

WILDERNESS FIRE EFFECTS

Episodic

Patchy

Rapid Recovery

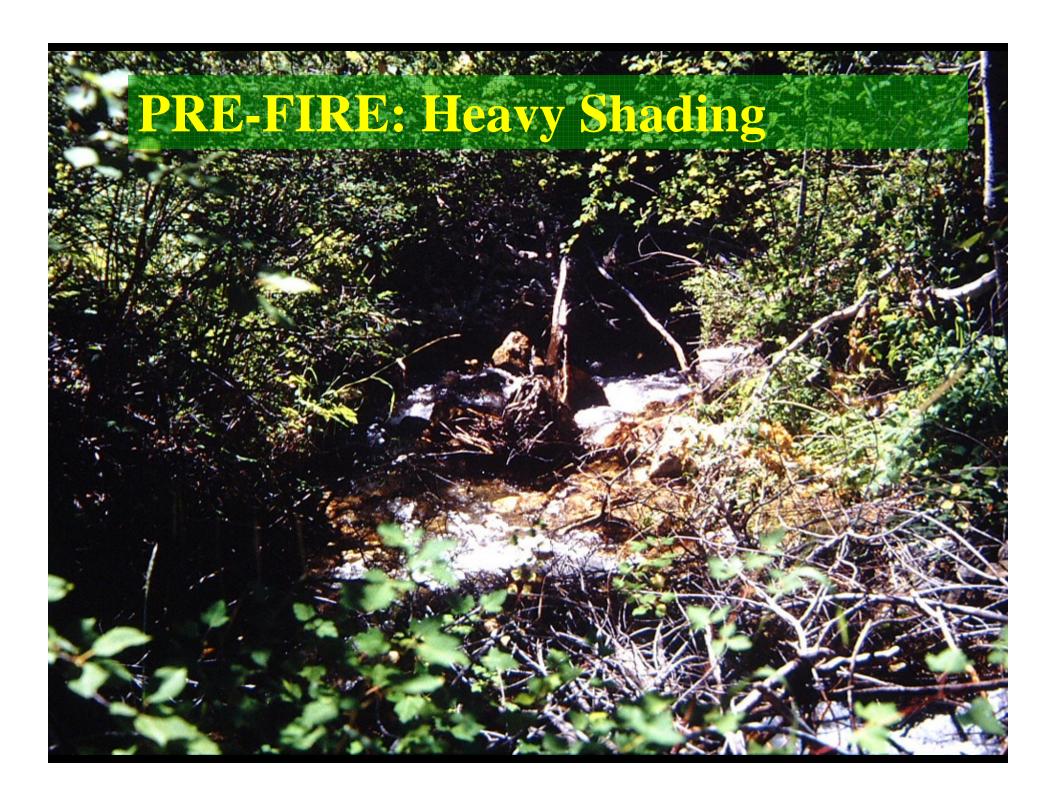
Temporal Sequence of Fire Effects on Streams

- Immediate (Hours to Days)
- Short-term (Days to Months)
- Mid-term (Months to Years)
- Long-term (Tens to Hundreds of Years)

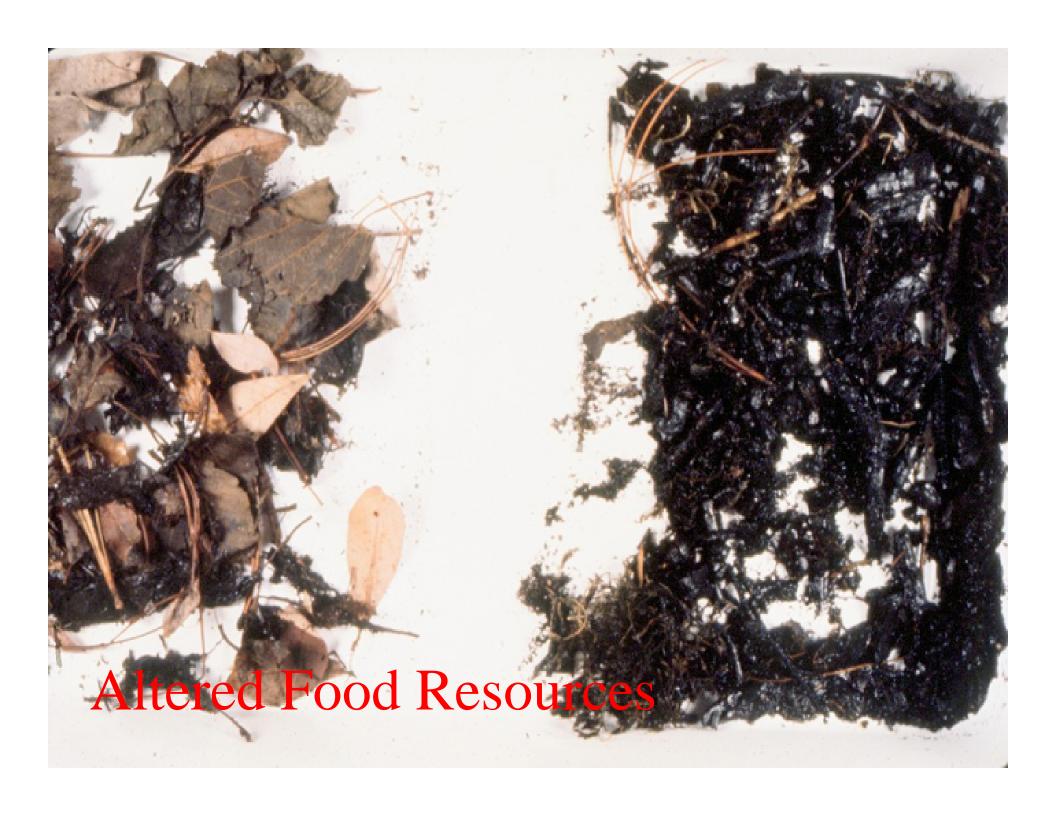
Effects of Fire on Stream Ecosystems

- Immediate (Hours to Days)
 - -Heat
 - -Smoke
 - -Ash
- Short-term
- Mid-term
- Long-term





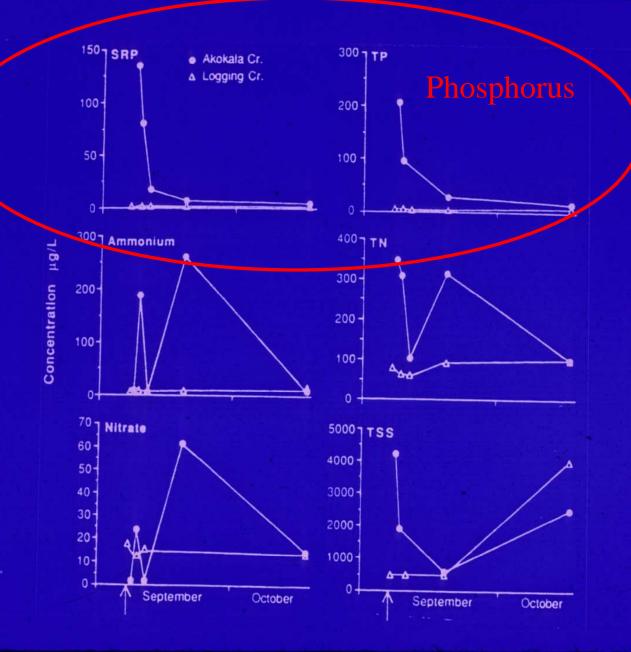














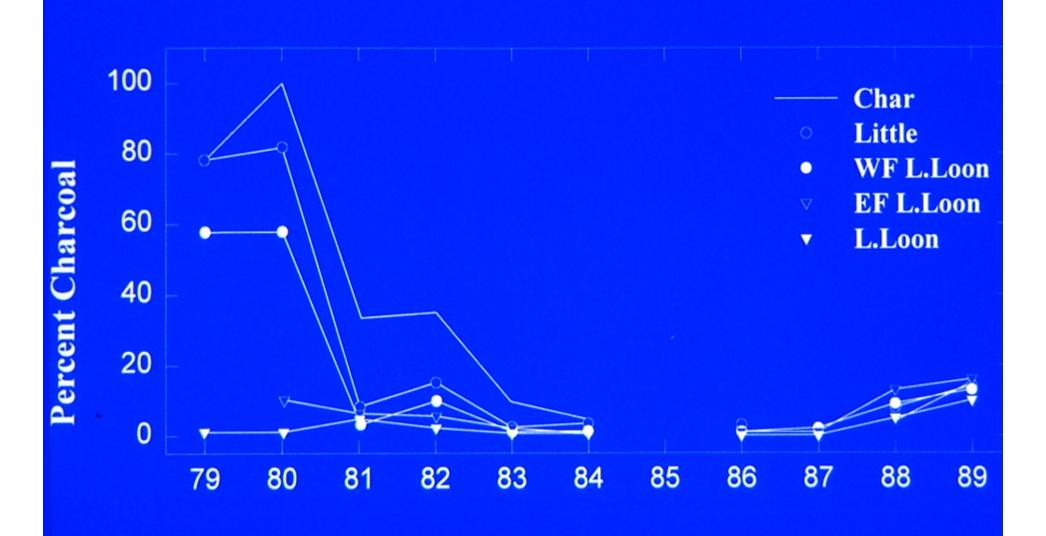


Effects of Fire on Stream Ecosystems

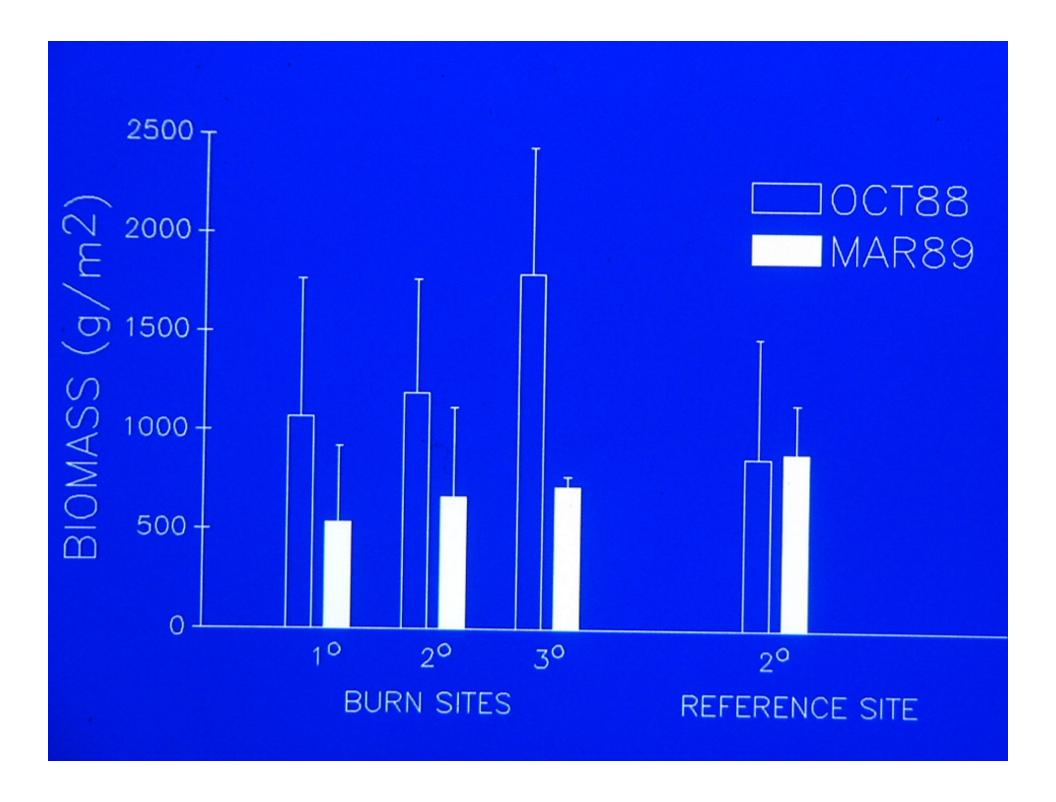
- Immediate
- Short-term (Days to Months)
 - –Altered Food Quality
- Mid-term
- Long-term



CHARCOAL

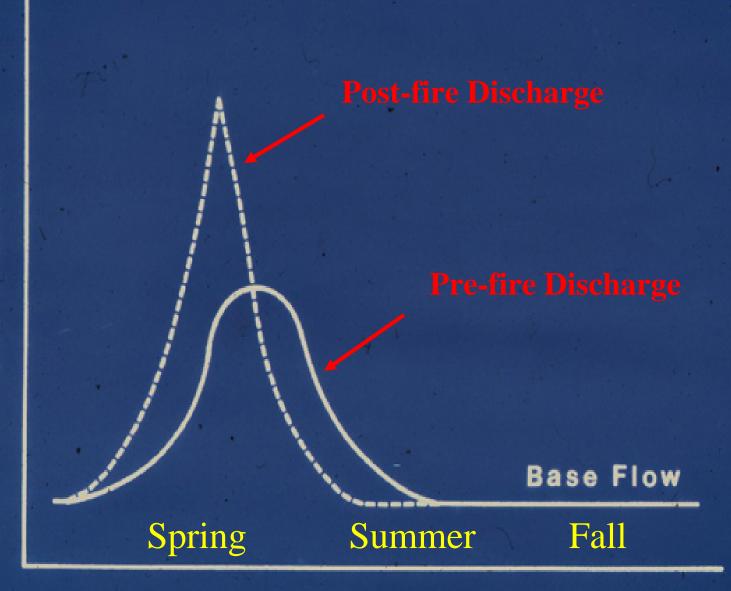






Effects of Fire on Stream Ecosystems

- Immediate
- Short-term
- Mid-term (Months to Years)
 - Sediment
 - Channel Alteration
 - Altered Food Quality (-+)
 - Woody Debris
- Long-term



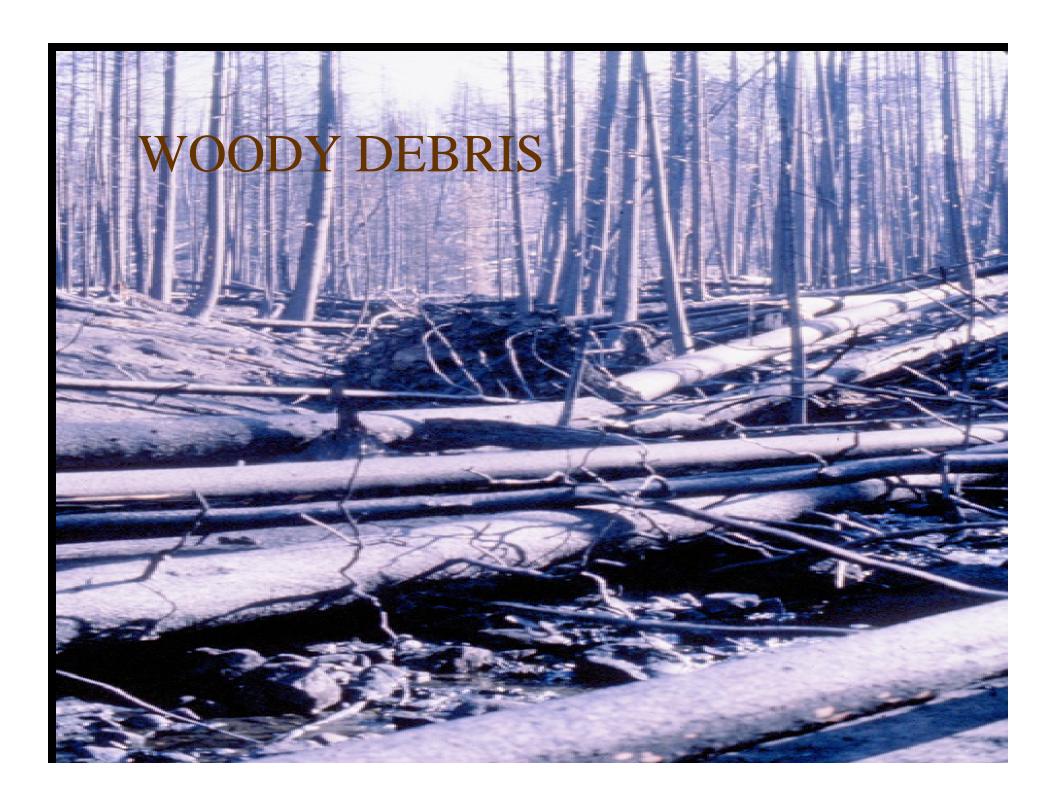




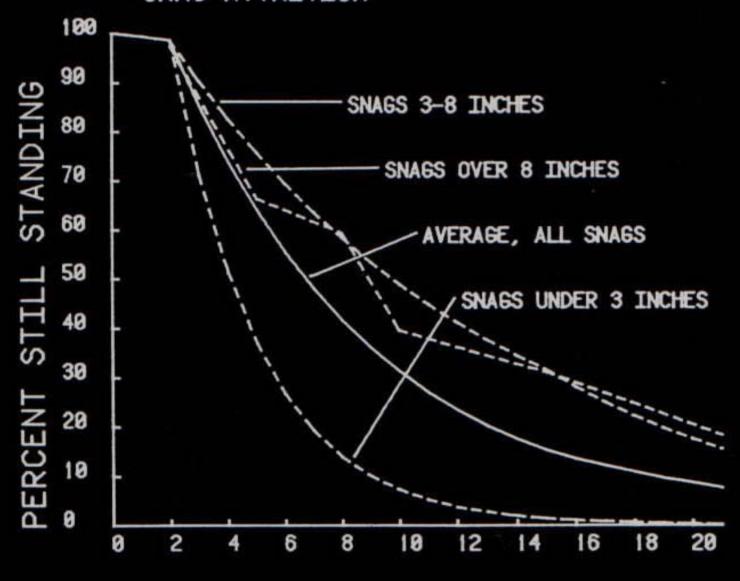








SNAG ATTRITION



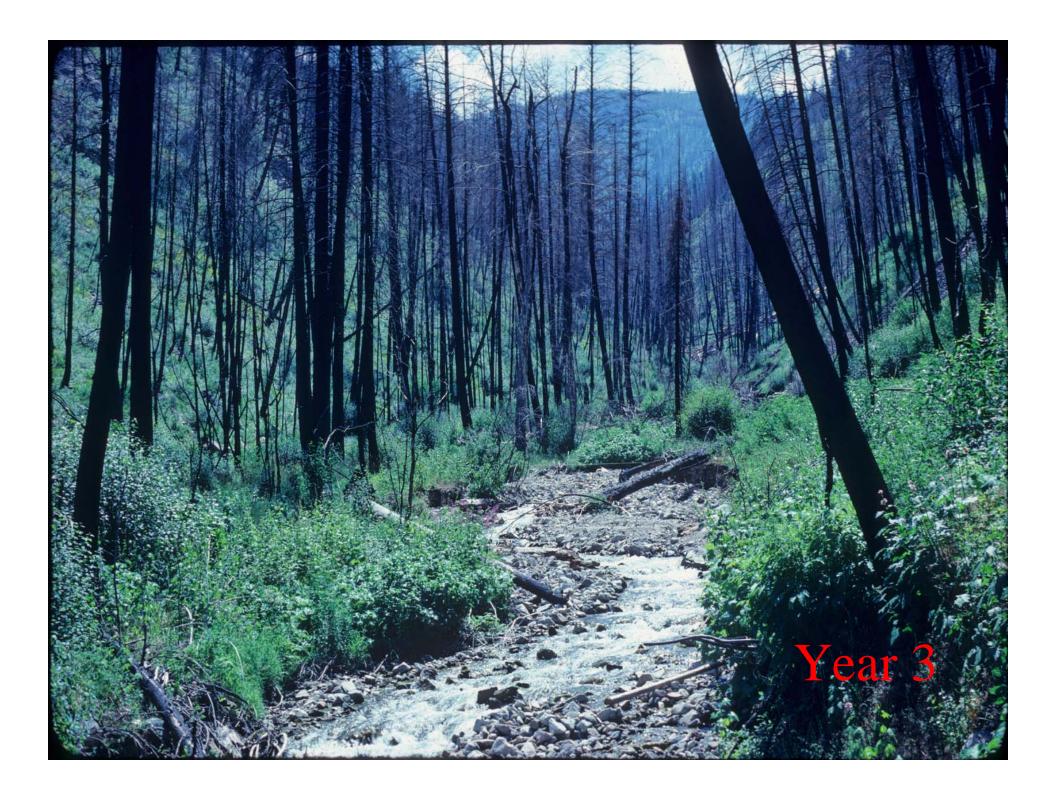
SUCCESSION YEARS







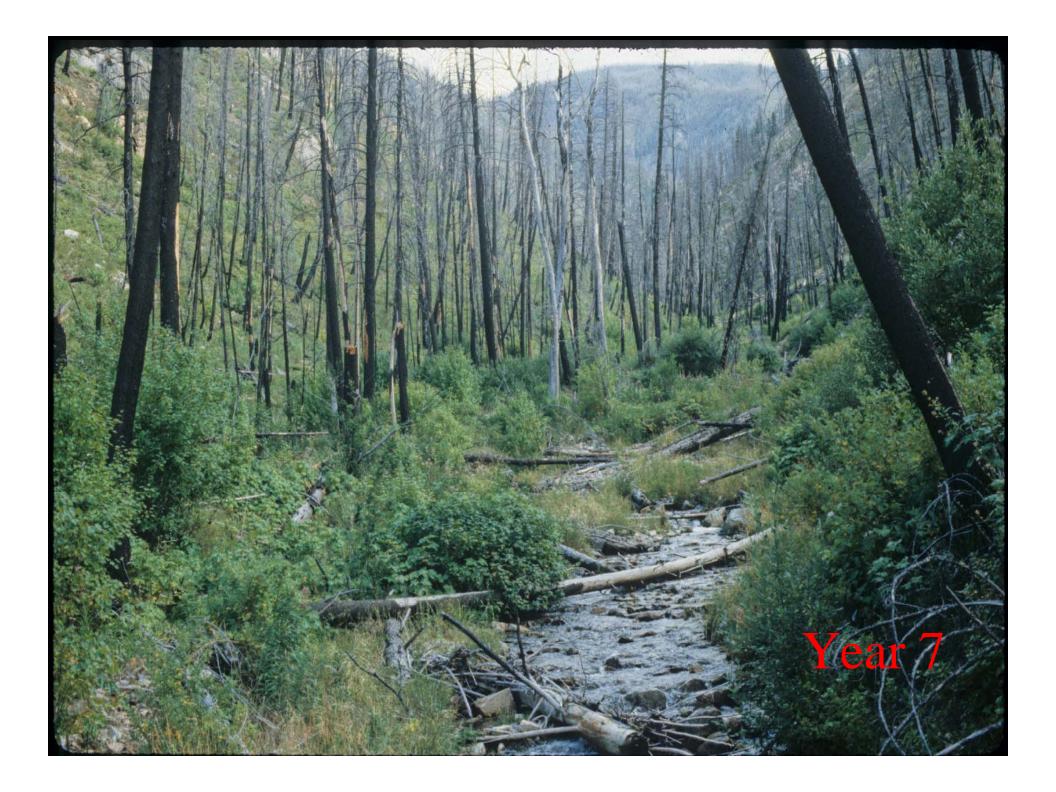


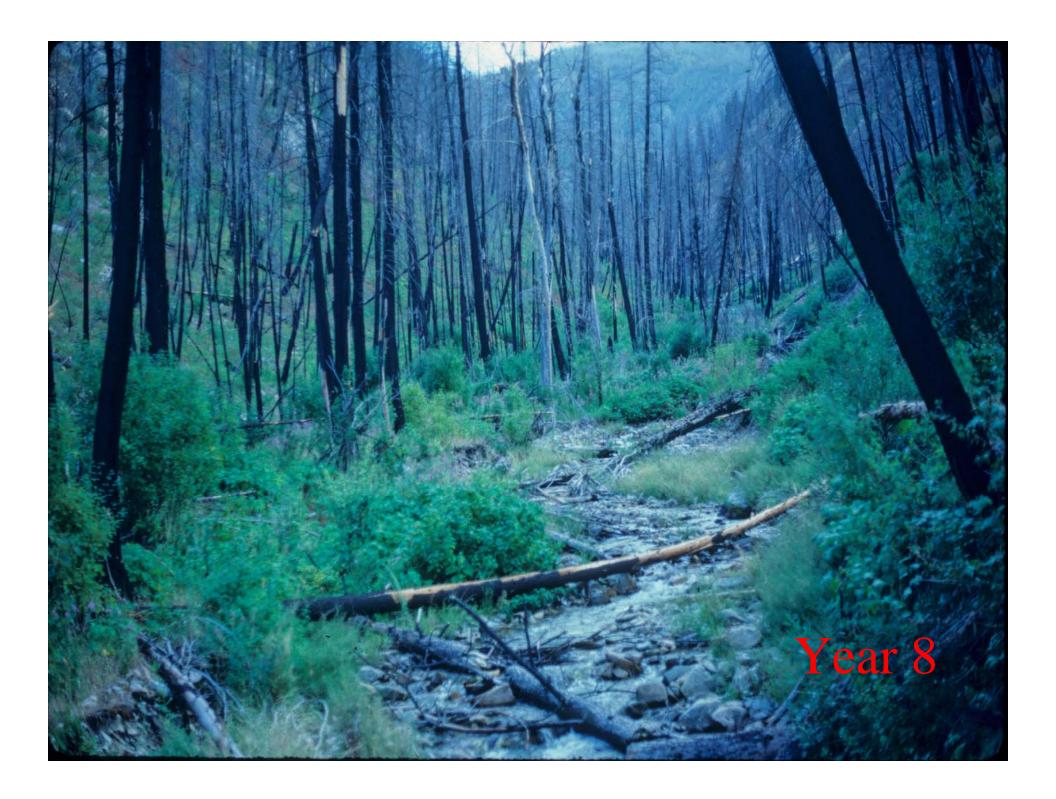




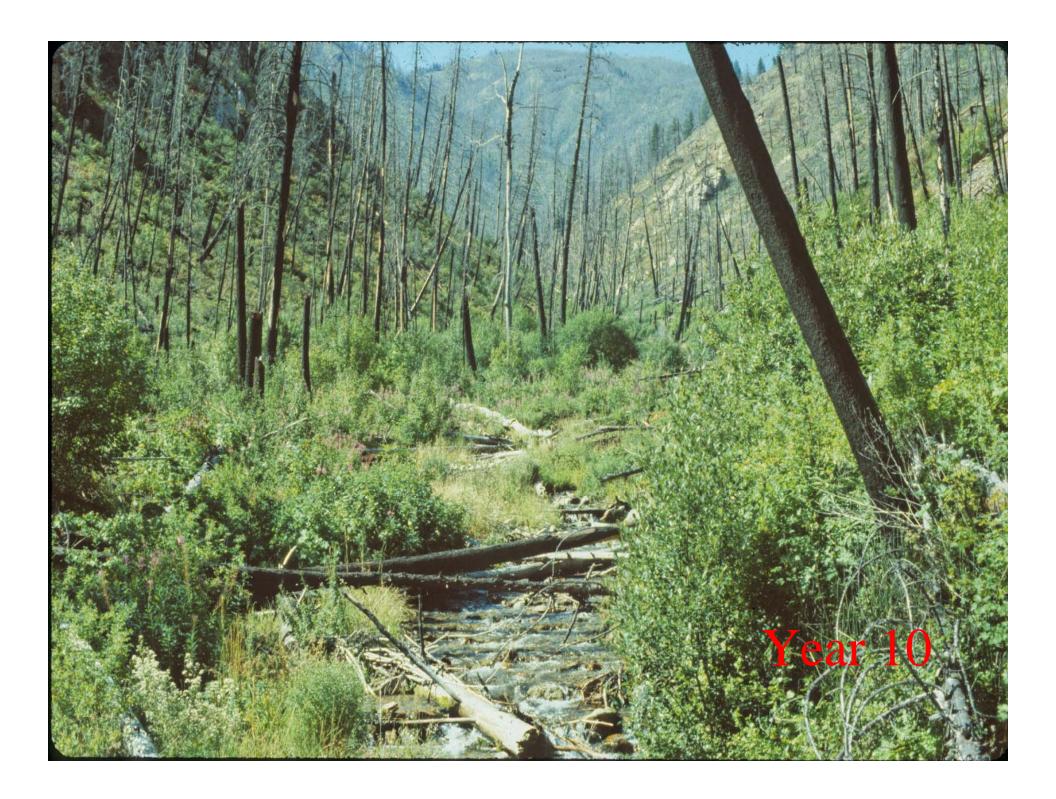




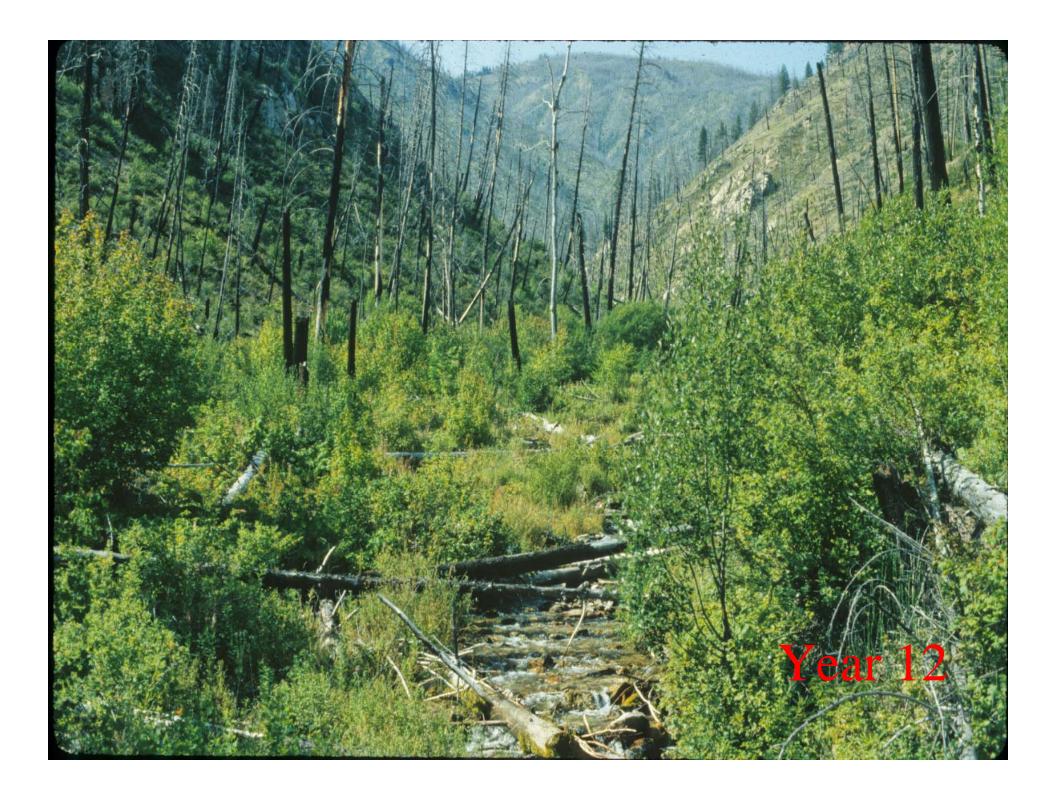
























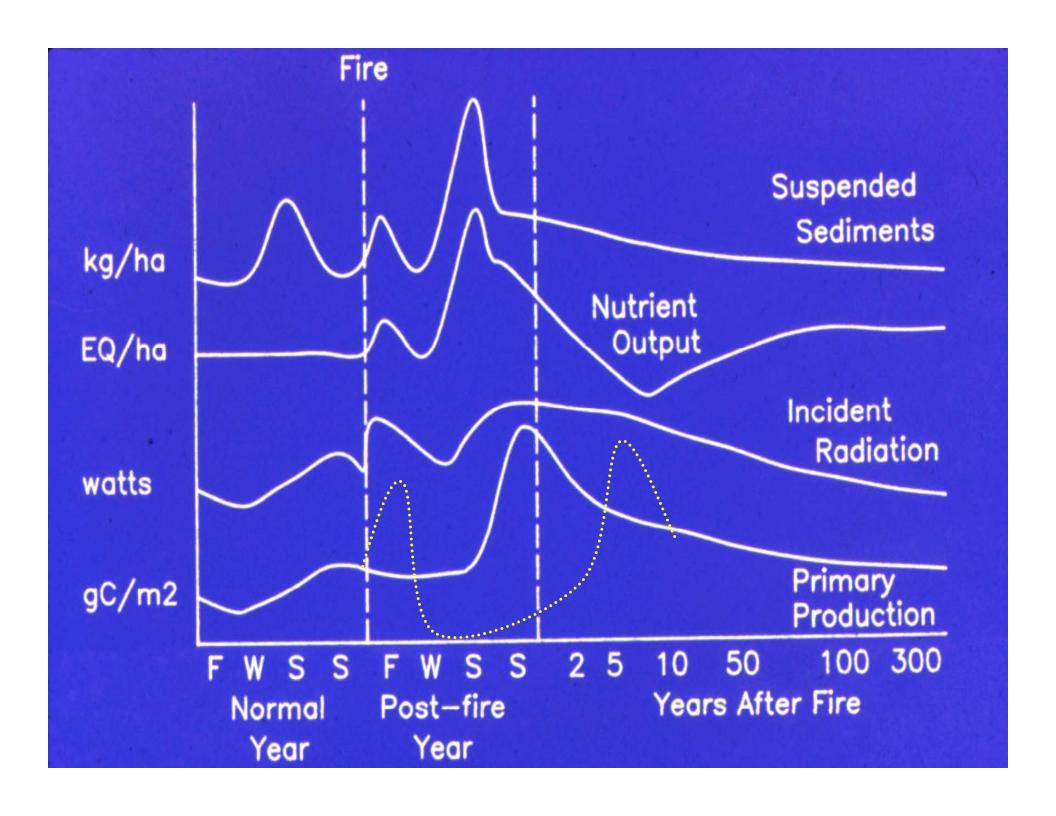


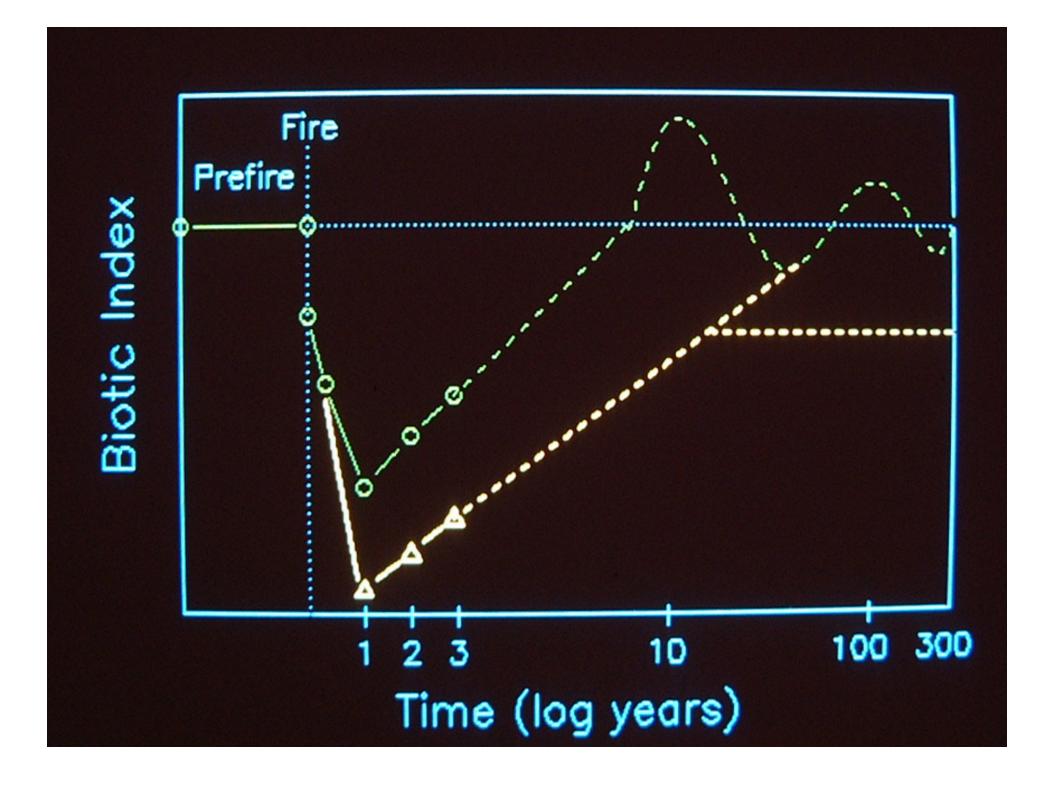


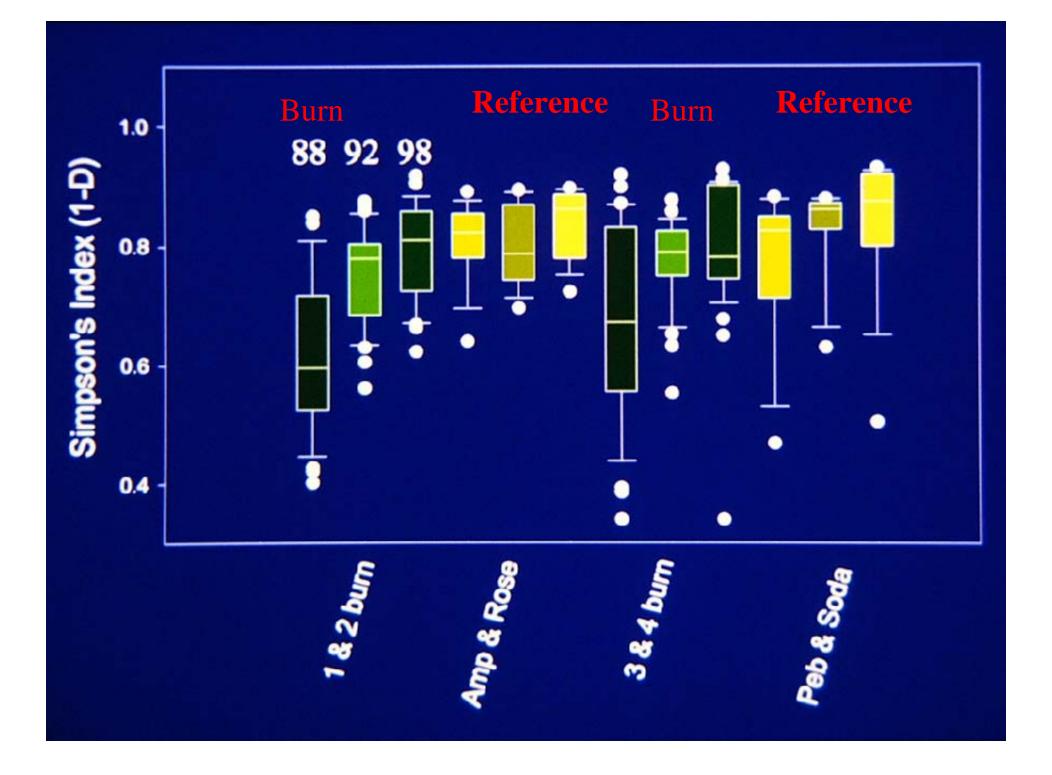


Effects of Fire on Stream Ecosystems

- Immediate
- Short-term
- Mid-term
- Long-term (Tens to Hundreds of Years)
 - -Stabilization of Physical Conditions
 - Return to Pre-fire Conditions

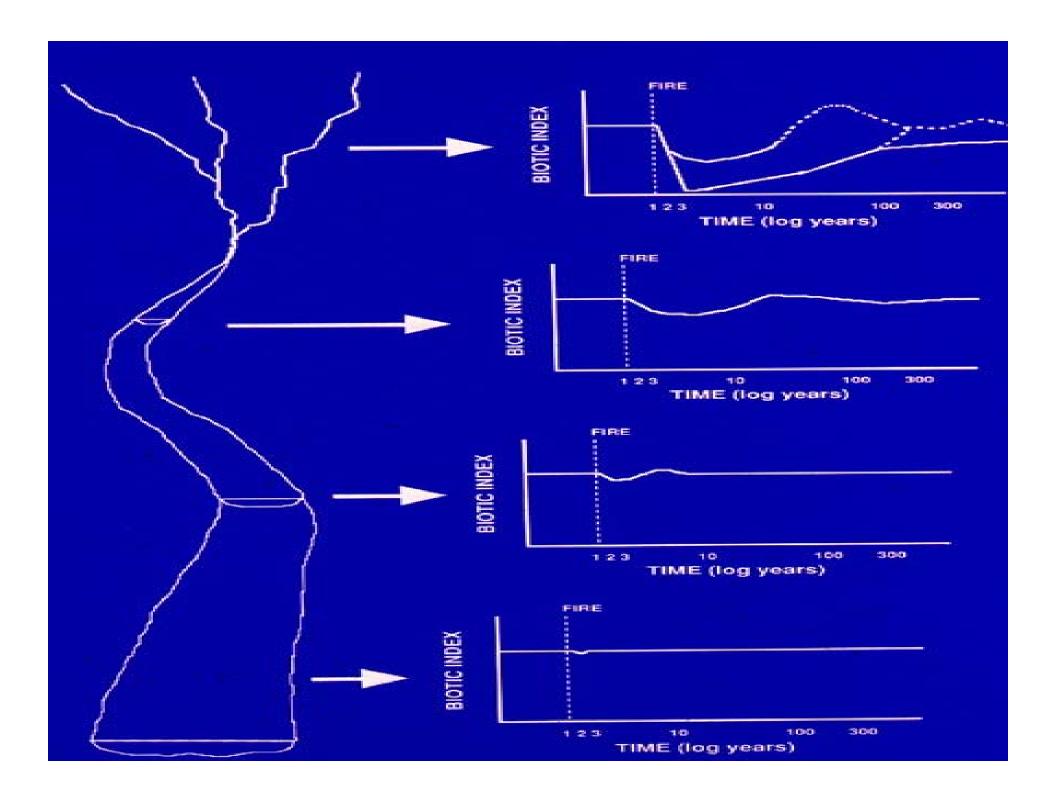


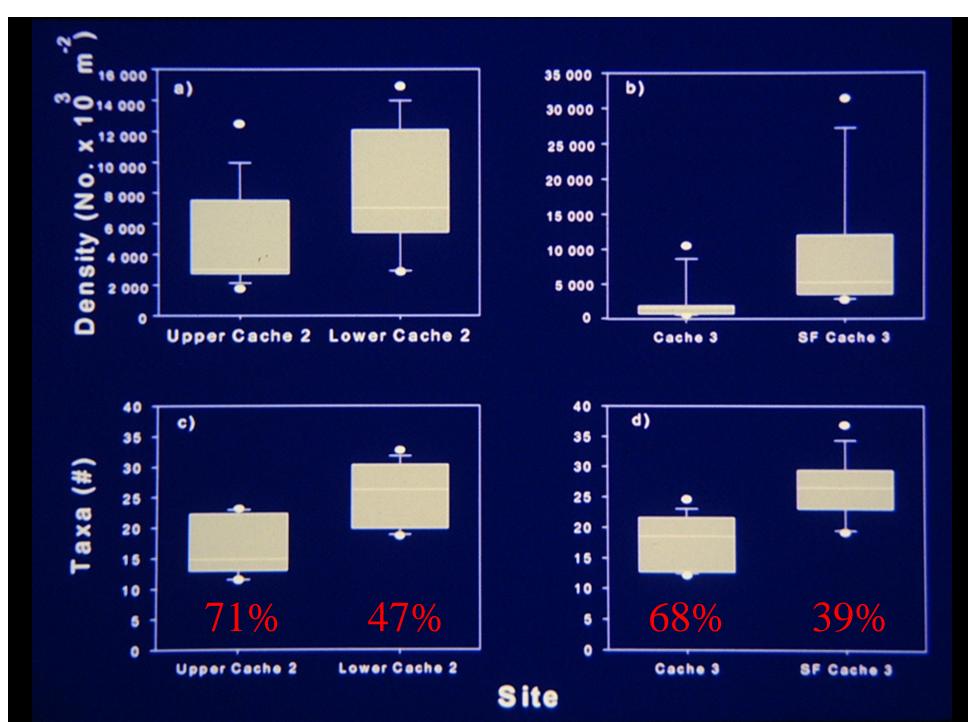


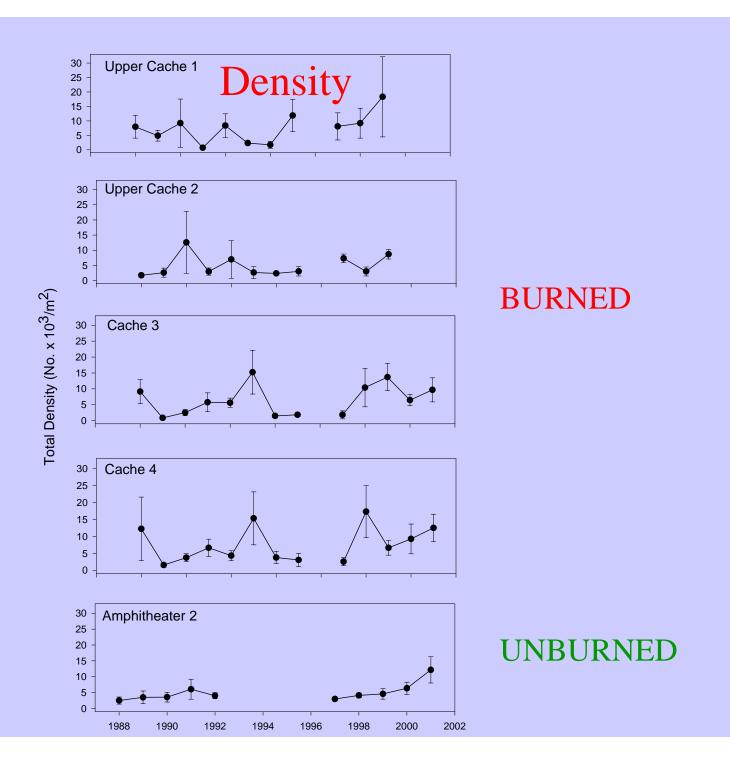


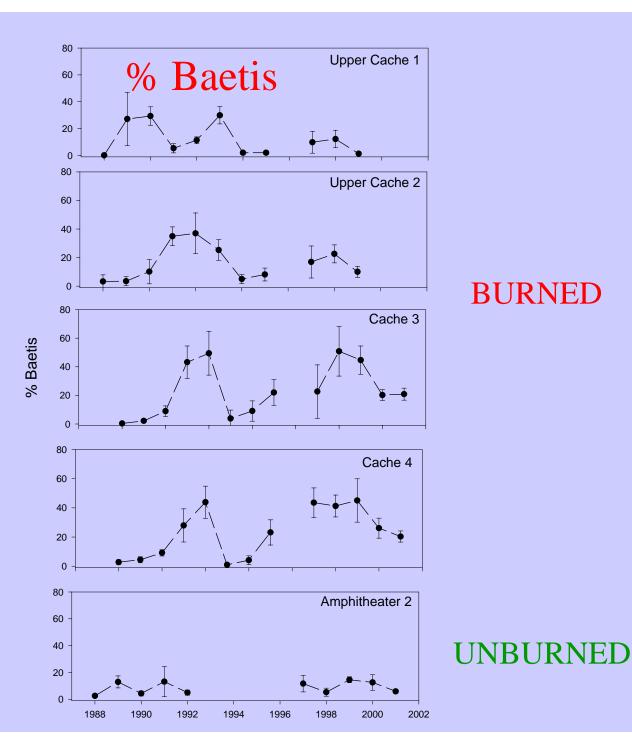
SIZE MATTERS

- Stream Size
- Fire Size









MANAGEMENT IMPLICATIONS

There Is No Fire Crisis!

There Is No Fire Crisis!

Adequate time for resource stewards to respond wisely

Often the wisest response is no action at all!









There Is No Fire Crisis!

(But There Is A Forest Management Crisis)

NON-WILDERNESS FIRE EFFECTS

Chronic

Homogeneous

Recover slowly









